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# موقع المناهج المصرية

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**Answer the following questions:****Question one: (A) Complete the following statements:**

- 1- There are two types of electric currents which are..... and .....
- 2- Hormones are secreted in the body from special organs which called.....
- 3- The unit of measuring the absorbed radiation is.....
- 4- Change in the concentration of reactants and products in unit time is known as .....
- 5- Reaction between acid and base to form salt and water is known as.....
- 6- The..... is a device used to measure the electromotive force of a battery, and its measuring unit is.....

**(B) What is meant by each of the following:**

- 1- Mendel second law.
- 2- The electric resistance.

**Question two: (A) write the scientific term to each of the following:**

- 1- Quantity of electric charges that flow through a section of a conductor in a time equal one second.
- 2- A substance that increase the speed of the chemical reaction without being consumed.
- 3- Radiation or nuclear energy released during the nuclear reaction that can be controlled and carried out in nuclear reactors.
- 4- It is chemically consists of nucleic acid called DNA combined with protein.

(B) A battery consists of three identical electric cells, the e.m.f of each electric cell is 3 volts. Calculate the electromotive force when these cells are connected:

- 1- In series
- 2- in parallel

**Question Three: (A) Choose the correct answer for each of the following statements:**

- 1- The Ohmmeter is used to measure ..... in the electric circuit.  
(Potential difference – Current intensity – electric resistance – electric current)
- 2- The phenomenon of radioactivity was discovered by .....  
(Ohm – Becquerel – Ampere – Newton)
- 3- The hormone which is responsible for the appearance of male secondary sexual characters is.....  
(Progesterone – testosterone – adrenaline – insulin)
- 4- The unit of measuring electric charges is ..... (Coulomb – ampere – volt – newton)

**(B) Illustrate with chemical equations each of the following:**

- 1- Reaction of sodium with water.
- 2- Thermal decomposition of silver nitrate.

**Question four: (A) Explain each of the following:**

- 1- The area chosen for storing the radioactive wastes should be away from underground water's path.
- 2- The Rheostat are used in some electric circuits.
- 3- The ability to roll the tongue is dominant trait in human being.
- 4- The rate of reaction of hydrochloric acid with iron fillings is more faster than its reaction with a piece of iron that has the same mass.

(B) Compare between the simple substitution reactions and double substitution reactions ( in terms of definition).

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Question one:

A) Complete:

- 1- direct, indirect.
- 2- endocrine glands.
- 3- rem.
- 4- rate of chemical reaction.
- 5- neutralization reaction.
- 6- voltmeter - volt.

B) What's meant by:

- 1- Mendel's second law: law of independent assortment of hereditary factors: when two pure different individuals bearing a pair or more of contrasting (Alternative) traits are crossed, the trait of each pair is inherited independently of the others and appears in the second generation at a ratio of 3 (dominant trait): 1 (recessive trait).
- 2- electric resistance: it's the opposition that the electric current faces during its passing through a conductor.

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Question 2:

- A**
1. electric current intensity .
  2. catalyst .
  3. Artificial radioactivity .
  4. Chromosomes .

**B** 1. in series

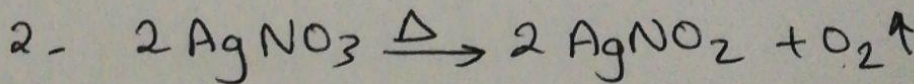
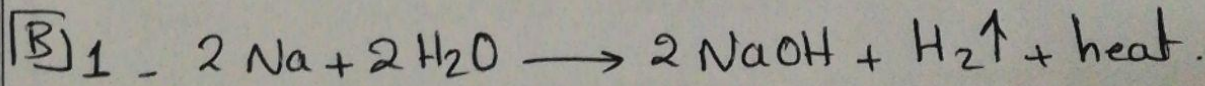
2. in parallel .

$$E = E_1 \times n \\ = 3 \times 3 = 9 \text{ volts}$$

$$E = E_1 \\ = 3 \text{ volts}$$

Question 3:

- A**
1. electric resistance .
  2. Becquerel .
  3. testosterone .
  4. Coloumb .



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Question four:

A

- 1- to prevent the spreading of the radioactive wastes in the surrounding environment by the effect of earthquakes or volcanoes.
2. To control the electric current intensity.
- 3- Because it dominates over the non-ability to roll the tongue.
- 4- Because iron fillings have more surface area than piece of iron & as the surface area increase the rate of a chemical reaction increase.

B Compare:

Simple substitution reactions

- They're chemical reactions in which one of the elements substitutes another less active element in a solution of one of its compounds.

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Double substitution reaction

- They're chemical reactions in which double substitution (exchange) occurs between the ions (radicals) of two different compounds to give two other new compounds.

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